2015 NIST Time and Frequency Seminar

Tuesday, June 2

Time	Speaker and Title
8:00-8:45	Registration and check-in
8:45-9:00	Announcements and introductions
9:00-9:40	*Tom O'Brian:* Assessment of Time, Timekeeping and Time Distribution
9:40-10:10	*John Vig:* Quartz Crystal Resonators and Oscillators
10:10-10:30	**Break**
11:00-12:00	*David Allan:* Introduction to Time Domain Measurement Standards
12:00-1:30	**Lunch**
1:30-3:00	*David Allan:* Time-Domain and Frequency-Domain Representations with Some Applications
3:00-3:20	**Break**
3:20-4:20	*Judah Levine:* Time Domain Analysis, Part II
4:20-5:00	*David Howe:* Summary of Definitions: Freuqncy, Time, Noise, Stability, Accuracy, Calibration, Traceability, Certification

Wednesday, June 3

Time	Speaker and Title
8:30-8:45	Announcements
8:45-10:15	*Craig Nelson:* Techniques of State-of-the-Art PM and AM Noise Measurements
10:15-10:35	**Break**
10:35-11:15	*Sam Stein:* Digital Measurements of PM-Noise of Precision Oscillators
11:15-12:00	*Archita Hati:* Vibration-Induced Phase Noise: Oscillators and Non-Oscillatory Components
12:00-1:15	**Lunch**
1:15-2:00	*Andrew Novick:* Basic Measurements of Time and Frequency
2:00-2:50	*David Howe:* Time Domain Analysis
2:50-3:10	**Break**
3:10-4:00	*Archita Hati:* Phase Noise Measurement Demonstration
4:00-5:00	Hands-on Tests and Noise Measurements
6:00	Dinner at Hotel Boulderado

Thursday, June 4

Time	Speaker and Title
8:00-8:15	Questions and Answers
8:15-9:00	*TBD:* Atomic Frequency Standards
9:40-10:30	*Svenja Knappe:* Chip-Scale Atomic Sensors and Clocks
10:30-10:40	**Break**
10:40-11:30	*Tara Fortier:* Optical Frequency Dividers Using Femtosecond Combs
11:30-12:00	*Frank Quinlan:* High-Speed Photodetection
12:00-1:00	**Lunch**
1:00-1:50	*Neil Ashby:* Geolocation using TDOA and FDOA with Precision Clocks and Oscillators
2:50-3:30	*Victor Zhang:* Time and Frequency Transfer Using Two-Way and GPS
3:30-3:40	**Break**
3:40-4:20	*Scott Papp:* Chip-Scale Optical Frequency Combs
4:20-5:00	*Elizabeth Donley:* Design and Performance of Commercial Atomic Clocks

Friday, June 5

Time	Speaker and Title
8:45-9:30	*Dave Leibrandt:* Trapped Ion Optical Clocks and Quantum Logic Spectroscopy
9:30-10:15	*Chris Oates:* Optical Lattice Clocks
10:15-10:30	**Break**
10:30-11:15	*Nate Newbury:* Optical Frequency Transfer over Fiber and Air
11:15-12:00	*Tom O'Brian:* Trends in Time Generation and Distribution
12:00-12:15	Conclusions and Discussion
2:00-4:00	Separate group tours of NIST: Time Scale, Josephson Junction Voltage Standard

Seminar Webpage: http://tf.boulder.nist.gov/seminars/TFSeminar2015/Seminar.html